

M 1.1:

Running the program gave the desired output of 86.73% accuracy and using time, we measured the elapsed time of the whole python program to be 24.645 seconds.

M 1.2:

The program gave the same output accuracy of 86.73% with an elapsed time of 46.531 seconds.

M 1.3:

The most time consuming kernels are cudaStreamCreateWithFlags, which uses 46.64% of the total time, cudaFree, which uses 28.60% of the total time, and cudaMemGetInfo, which uses 20.87% of the total time.

M 2:

With the ece408-high model with a data size of 10000, the model has a correctness of 85.62% with an op time of 11.827049 and a real time of 57.458 seconds. For the ece408-low model with a data size of 10000, the model has a correctness of 62.9% with an op time of 12.185129 and a real time of 55.375 seconds.

Contributions:

Rvarma2: Writing the code for 2.1.py

Stang17: Writing the report.